

Attorney Docket No.
AUS920030579US1

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Boerstler et al.

Title: ADAPTIVE METHOD AND APPARATUS TO CONTROL LOOP BANDWIDTH
OF A PHASE LOCK LOOP

Serial No.: To be assigned

Filed: Herewith

Group: To be assigned

Commissioner for Patents
PO Box 1450
Alexandria, Virginia 22313-1450

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

In compliance with the duty of disclosure set forth in 37 C.F.R. ' 1.56, Applicants wish to bring the items cited in the attached Form PTO/SB/08 to the attention of the Examiner. A copy of each item is enclosed for the convenience of the Examiner.

No representation is made, and no representation is intended, that more relevant material does not exist, or that the order of presentation of this material in any way reflects the relative pertinence. The references cited are not intended to constitute an admission of any kind. Specifically, this presentation is not an admission that the items listed in the attached Form PTO/SB/08 are properly citable against the above-identified application as prior art.

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Applicants consider the invention to be distinguishable over the references cited.

As this Information Disclosure Statement is being filed before the issuance of the first office action, no fee is enclosed.

Respectfully submitted,

Date: _____

1/23/03



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U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use several sheets if necessary)

ATTORNEY DOCKET NO.:
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APPLICANT: Boerstler et al.

EXAMINER: To be assigned

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U.S. PATENT DOCUMENTS

EXAMINER INITIALS*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Figures Appear
		Number	Kind Code ²			
	AA	4,131,862	B1	Black et al.		
	AB	5,113,152	B1	Norimatsu		
	AC	5,272,452	B1	Adachi et al.		
	AD	6,060,953	B1	Tsai		
	AE					
	AF					
	AG					

FOREIGN PATENT DOCUMENTS

	Cite No. ¹	Foreign Patent Document		Kind Code ⁵	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴					
	BA	EP	0 782 271	A1	Thomson Consumer Electronics			
	BB							
	BC							
	BD							

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

	CA		FAHIM, A.M. and ELMASRY, M.I.; "A Fast Lock Digital Phase-Locked-Loop Architecture for Wireless Applications"; <i>IEEE Transactions on Circuits and Systems-II: Analog and Digital Signal Processing</i> ; February 2003; Vol. 50, No. 2; pp. 63-72.					
	CB		LEE, Joonsuk and KIM, Beomsup; "A Low Noise Fast Lock Phase Locked Loop With Adaptive Bandwidth Control"; <i>IEEE Journal of Solid-State Circuits</i> ; August 2000; Vol. 35, No. 8; pp. 1137-1145.					
	CC		ROH, Gyoung-Tae, LEE, Yong Hoon and KIM, Beomsup; "Optimum Phase Acquisition Technique for Charge Pump PLL," <i>IEEE Transactions on Circuits and System-II: Analog and Digital Signal Processing</i> ; September 1997; Vol. 44, No. 9; pp. 729-740.					

EXAMINER:

DATE CONSIDERED:

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issue the document, by the two-letter code (WIPO Standard ST. 3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Place a check mark here if English language Translation is attached.